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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------------|----------------------|-----------------------------------|------------------|
| 10/582,413 | 10/26/2006 | Toshihiko Ohtomo | 14875-164US1 7418 C1-A0321P-US | |
| 26161 7590 01/04/2008 FISH & RICHARDSON PC | | EXAMINER | | |
| P.O. BOX 1022 | | | GUSSOW, ANNE | |
| MINNEAPOL | IS, MN 55440-1022 | | ART UNIT PAPER NUMBER | |
| | | | 1643 | • |
| • | | | · | |
| | | | MAIL DATE | DELIVERY MODE |
| | | • | 01/04/2008 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application No. | Applicant(s) | | | |
|---|--|--|--|--|--|--|
| Office Action Summary | | 10/582,413 | OHTOMO ET AL. | | | |
| | | Examiner | Art Unit | | | |
| | | Anne M. Gussow | 1643 | | | |
| Period fo | The MAILING DATE of this communication app or Reply | ears on the cover sheet with the c | orrespondence address | | | |
| WHIC - Exter after - If NO - Failu Any r | ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES OF THE MAILING | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | • | | | | |
| 1) | Responsive to communication(s) filed on | | | | | |
| 2a)□ | <u> </u> | action is non-final. | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| , | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Dispositi | on of Claims | • | | | | |
| <i>4</i>)⊠ | Claim(s) 1-19 is/are pending in the application. | | • | | | |
| • | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| | 5) Claim(s) is/are allowed. | | | | | |
| | Claim(s) is/are allowed: Claim(s) is/are rejected. | | | | | |
| _ | ☐ Claim(s) is/are rejected: | | | | | |
| | 8) Claim(s) 1-19 are subject to restriction and/or election requirement. | | | | | |
| Applicati | on Papers | • | | | | |
| | - | r | | | | |
| | 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is /arc; a) □ accepted or b) □ objected to by the Examiner. | | | | | |
| ٠٠/١ـــا | 10) The drawing(s) filed onis /are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | |
| | Replacement drawing sheet(s) including the correct | • | | | | |
| 11) | The oath or declaration is objected to by the Ex | | • | | | |
| | ınder 35 U.S.C. § 119 | | | | | |
| _ | | maio mitro com do m 25 11 0 0 0 0 440/-) |) (-1) (5) | | | |
| | Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of: | priority under 35 U.S.C. § 119(a) |)-(a) or (t). | | | |
| a)(| None of. 1.☐ Certified copies of the priority documents. | s have been received | • | | | |
| | | | on No | | | |
| | 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage | | | | | |
| | application from the International Bureau | | a in this realional otage | | | |
| * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| and the answers actually a mot actually to the continua copies not received. | | | | | | |
| | | | | | | |
| Attachmen | | | • | | | |
| 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s) (Mail Date | | | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application | | | | | | |
| Paper No(s)/Mail Date 6) Other: | | | | | | |

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

To have a general inventive concept under PCT rule 13.1, the inventions need to be linked by a special technical feature. The special technical feature recited in claim 1 is a method for enhancing the activity of an antibody comprising making the antibody into a single-chain polypeptide comprising two or more light chain variable regions and two or more heavy chain variable regions. In view of this Fukishima, et al. (US PG PUB 2004/0058393, PCT filed April 17, 2001) reads on the claim. Fukishima, et al. teach a method for preparing a single-chain antibody comprising two heavy chain variable regions and two light chain variable regions (see example 6). Therefore the technical feature recited in claim 1 is not special. Accordingly the groups are not so linked at to form a single general concept under rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) s 1-8 and 13, drawn to a method of enhancing the activity of an antibody.

Group II, claim(s) 9, drawn to an antibody whose activity has been enhanced by the method of claims 1-3.

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Group III, claim(s) 10-12, drawn to a method for producing an antibody comprising preparing DNA, constructing a vector, introducing the vector into a host cell and culturing the host cell.

Group IV, claim(s) 14, drawn to an antibody whose activity has been enhanced by the method of claim 4.

Group V, claim(s) 15, drawn to an antibody whose activity has been enhanced by the method of claim 5.

Group VI, claim(s) 16, drawn to an antibody whose activity has been enhanced by the method of claim 6.

Group VII, claim(s) 17, drawn to an antibody whose activity has been enhanced by the method of claim 7.

Group VIII, claim(s) 18, drawn to an antibody whose activity has been enhanced by the method of claim 8.

Group IX, claim(s) 19, drawn to an antibody whose activity has been enhanced by the method of claim 13.

- 2. The inventions listed as Groups I-IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: As set forth above, in view of the teachings of Fukishima, et al., the groups are not so linked as to form a single general concept under PCT Rule 13.1 because the technical feature of claim 1 is not special.
- 3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. The examiner has required restriction between product and process claims.

 Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

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All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Gussow whose telephone number is (571) 272-6047. The examiner can normally be reached on Monday - Friday 8:30 am - 5 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on (571) 272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anne M. Gussow

January 2, 2008

LARRY R. HELMS, PH.D.
SUPERVISORY PATENT EXAMINER